

UWA DATA LOG: SHRIMP ZIRCON U-Pb

Date	UWA Mount No.	Whose sample?	Operator(s)
25/6/99	99-26	April's S.A.	April / NMcN.

Indicate any change to the following:

	196	204	bkg	206	207	208	238	248	254	270
Precambrian	Count time (secs):	2	10	10	10/20	30/10	10	5	5	2
Phanerozoic	Delay time (secs):	8	3	1	2	1	1	3	2	2

expected 196-204 = 8.170 amu expected 204-bkg = 0.045 amu Dead-time = 32 nanosecs
 actual 196-204 = 8.165 actual 204-bkg = 0.045 expected resolution = >4200
 actual 206-207 = 1.000 actual 206-208 = 1.999 actual resolution = 5462
 Epoxy = 2.3 nA PESABM = 30 pA actual Primary : PESABM (≈ 50:1) =
 Primary = 3.2 nA Raster time (mins): 1 Raster aperture (microns): 120 No. of scans: 6

Comments: Expected Age ≈ 2460
 • 1st analysis @ 5pm. 1° drifting down. from 4.4 nA → ~ 3nA, see notes...

1° = 4.4 nA from 5pm Start at sl1-4.

Rejection over-ride	Sample/ Std ID	Time - printout	UO/U Kcps	196 Kcps	206 cps	U ppm	204Pb ppb	f ₂₀₆ %	Age ±1σ (Ma) 206/238	207/206	Offsets OK?
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1° dropped 3.2 → 2.8 nA spikes (quick) common.	sl. 1-1	13:29	6.30	10.9	1070	220	2.8	.03	572 ± 1	614 ± 23	✓
1° dropped 3.2 → 2.7 nA then ↑ → 3.2 nA	sl. 1-2	13:29	6.30	10.9	1070	220	2.8	.03	572 ± 1	614 ± 23	✓
1° drop 3.2 → 2.9 nA	sl. 1-3	13:29	6.30	10.9	1070	220	2.8	.03	572 ± 1	614 ± 23	✓
ERRORS - ALAN TO PUT IN NEW APERTURE...											
1° stable at 4.4 nA !!!	sl. 1-4	17:48	6.19	17.6	1661	220	0.6	.05	572 ± 1	557 ± 21	O.K. Cal: Std
1° spiked once 4.4 → 4.3	sl. 1-5	18:06	6.05	17.6	1632	229	1.5	.02	581 ± 1	530 ± 19	✓
4.3 nA → 3.8 nA steps down	B. 1-1	18:25	6.32	14.5	2814	82	0.1	.003	2533 ± ?	2477 ± ?	✓
4.4 nA → 1.4 nA 1° spiked once	sl. 1-6	18:44	6.50	11.7	1270	213	1.0	.08	580 ± 1	495 ± 23	✓
3.8 nA → 1.8 nA 1° spiked 2x	B. 3-1	19:08	6.69	9.5	3524	140	2.1	.05	2387 ± 7	2429 ± 7	✓
3.8 nA → nothing at end of scan 6. 1° spiked 4x	B. 3-2	19:27	7.93	12.0	4765	153	6.6	.24	1563 ± 4	2099 ± 8	✓
	sl. 2-1										

196 change 204 from 163 → .165. hi Pb 204 now

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